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(54) A process for the preparation of direct tabletting formulations and aids

(57) A thermal adhesion granulation process for preparing direct tabletting formulations or aids is disclosed. The process comprises the step of subjecting all or part of a mixture comprising:

A) from about 5 to about 99% by weight of one or more diluent excipients and/or from 0 to about 99% by weight of a pharmaceutically active ingredient;

B) from about 1 to about 95% by weight of a binder excipient; optionally with,

C) from 0 to about 10% by weight of a disintegrant excipient;

to heating at a temperature in the range of from about 30 to about 130 °C under the condition of low moisture or low content of a pharmaceutically-acceptable organic solvent in a closed system under mixing by tumble rotation until the formation of granules.



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EUROPEAN SEARCH REPORT

Application Number EP 01 12 1128

0-4	DOCUMENTS CONSI	indication, where appropriate,	Bolovoni	CLASSIFICATION	
Category	of relevant pass	ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
Υ	US 4 800 086 A (BU 24 January 1989 (1 * claim 1; example		1,9,14	A61K9/20	
Y	US 4 072 535 A (SH 7 February 1978 (1 * claim 7 *	ORT ROLLAND W P ET AL) 978-02-07)	1,9,14		
Υ	US 5 667 807 A (FR 16 September 1997 * claim 1; example	(1997-09-16)	1		
	processes in pharm drug delivery desi JOURNAL OF CRYSTAL PUBLISHING CO. AMS	GROWTH, NORTH-HOLLAND TERDAM, NL, April 2000 (2000-04).	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7)	
ĺ	US 4 757 090 A (SA 12 July 1988 (1988 * claims 5,6 *	LPEKAR ANIL M ET AL) -07-12)	1-27	A61K	
	US 5 006 345 A (LAM 9 April 1991 (1991 * column 2, line 58 claim 15 *		1-27		
Į,	US 6 083 430 A (BRC 4 July 2000 (2000-6 * claim 1 *		1-27		
	The present search report has t	oeen drawn up for all olaims			
	Place of search .	Date of completion of the search		Examiner	
MUNICH		9 December 2002	ESTA	ESTANOL, I	
X : partiou Y : partiou docum A : techno	EGORY OF CITED DOCUMENTS larly relevant if taken alone larly relevant if combined with another ent of the same category logical background ifften disclosure	T: theory or principle E: earlier patent doou after the filling date D: document ofted in L: document ofted for 8: member of the san	underlying the Inv ment, but publish the application other reasons	vention ed on, or	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 12 1128

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-12-2002

Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
US 4800086	A	24-01-1989	DE	3447422 A1	26-06-1986
00 100000	,,	L+ 01 1303	AU	579691 B2	08-12-1988
			AU	5160185 A	
					03-07-1986
			DE	3572590 D1	05-10-1989
			DK	602085 A ,B,	25-06-1986
			EP	0186090 A2	02-07-1986
			HU	40562 A2	28-01-1987
			ΙL	.77382 A	31 <i>-</i> 07 <i>-</i> 1989
			JP	1852665 C	21-06-1994
			JР	5066928 B	22-09-1993
			JP	61158923 A	18-07-1986
			ZA	8509795 A	24-09-1986
US 4072535	Α	07-02-1978	NONE		,
US 5667807	A	16-09-1997	DE	4418837 A1	07-12-1995
			AT	173919 T	15-12-1998
			AU	693877 B2	09-07-1998
			AU	2027795 A	07-12-1995
			CA	2150304 A1	01-12-1995
			DE	59504386 D1	14-01-1999
			DK	686392 T3	16-08-1999
			EP	0686392 A1	13-12-1995
			ES	2124460 T3	01-02-1999
			FI	952578 A	
			JP		01-12-1995
				8047521 A	20-02-1996
			NO .	952110 A	01-12-1995
			\$I 	686392 T1	30-04-1999
US 4757090	Α	12-07-1988	US 	4661521 A	28-04-1987
US 5006345	Α	09-04-1991	DE	3505433 A1	21-08-1986
			DE	3671839 D1	19-07-1990
			EP	0192173 A2	27-08-1986
			JP	61189217 A	22-08-1986
US 6083430	Α	04-07-2000	US	5683720 A	04-11-1997
			AU	2746597 A	19-11-1997
			WO.	9740821 A1	06-11-1997
			AU	691969 B2	28-05-1998
			AU	3442495 A	09-05-1996
			CA	2161203 A1	29-04-1996
			CN	1131054 A	18-09-1996
			DE	69526709 D1	20-06-2002
			EP	0709086 A2	
			IL	115720 A	01-05-1996
			1 L	113/2U A	06-12-2000

นั้น For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 12 1128

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-12-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
US	6083430	A		JP US US	8259437 A 5849223 A 5965164 A	08-10-1996 15-12-1998 12-10-1999
		•				
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82